Connected, Automated, Shared, Electric

**Automated: Vehicle Technology Revolution**
- Sensors
- Wireless communications
- Information technology
- Vehicle guidance systems

**Connected: Public Infrastructure**
- Traffic systems interface
- Road/Air “navigation aids”
- Data for traveler information / traffic management

**Electric: Propulsion**
- Electric Vehicle Charging Stations
- Motor Fuel Tax impact?

**Shared: Vehicle Ownership**
- Transportation Network Companies (Uber, Lyft)
- Autonomous vehicle services
- Fewer vehicles per household?

**DriveOhio**

- Autonomous vehicle testing
- Develop standards for vehicle-to-infrastructure communications
- Assessing roadway impacts
- Management systems for real-time vehicle data
- Assess travel demand impacts
- EV charging infrastructure development
- Evaluate EV revenue impacts
- Insurance industry considerations
- Legal and regulatory changes
- Workforce development

The Future of Smart Mobility
Proven disruptive technology assets and expertise to drive innovation as we deploy new, integrated transportation systems.
Programs

• Ohio Autonomous Vehicle Pilot Program
• C.A.S.E. Research and Development
• Ohio Unmanned Aerial Systems (UAS) Center
• Economic and Workforce Development Program
Ohio Autonomous Vehicle Pilot Program

- Smartbelt Coalition – Truck Platooning Demonstration
- AV Shuttles
  - 2 SmartColumbus deployments
  - Youngstown AV shuttle grant (pending)
- I-70 Truck Automated Vehicle Demonstration: $8.9 Million
- Southeast Ohio Rural AV Demonstration: $17.8 Million
C.A.S.E. Research & Development

- US 33 Smart Mobility Corridor
  - Smart Marysville
  - Smart Dublin
- Connected/Automated Vehicle Statewide Engineering Analysis
- Electric Vehicle Policy, Planning, and Deployment
The US 33 Smart Mobility Corridor is one of the world’s largest integrated smart mobility test corridors – on the ground and in the air.

- 35 miles of connected + automation-ready roads
- Low-altitude air traffic management testing
- Industry, academic, and research collaborations
Ohio Unmanned Aerial Systems Center

- Drone operations: More than 1,800 flights for ODOT and state agency partners
- Leading research in Remote Tower airspace monitoring
- SkyVision Airspace Monitoring Services: beyond-line-of-sight unmanned aircraft operations
- Partnerships with industry, research, and federal agencies foster business attraction
Workforce Economic and Development Program

• Smart Mobility Workforce Development
  • K-12 STEM
  • Upskilling workforce
  • Higher education and capstone programs

• University R&D Coordination
• DriveOhio-JobsOhio Partnership
• Outreach and engagement with smart mobility companies
Economic Development Collaboration

• World-class R&D, talent, and customer base

• Strategy:
  • Design
  • Test
  • Deploy
“FlyOhio is really a statewide initiative. They do everything, move heaven and earth to get drones in the commercial space. You have aerospace in your blood.”

– Beth Flippo, TELEGRID